SEQUENCE LISTING

<110> Urry, Dan

<120>   Acoustic Absorption Polymers and Their Methods of Use

<130>   BERL025/01US

<140>   09/746371
<141>   2000-12-20

<160>   47

<170>   PatentIn version 3.0

<210>   1
<211>   5
<212>   PRT
<213>   Artificial

<220>
<223>   This is a synthetic sequence.

<220>
<221>   PEPTIDE
<222>   (1)..(5)

<400>   1

Val Pro Gly Val Gly
1   5

<210>   2
<211>   4
<212>   PRT
<213>   Artificial

<220>
<223>   This is a synthetic sequence.

<220>
<221>   PEPTIDE
<222>   (1)..(4)

<400>   2

Val Pro Gly Gly
1

```
<210>  3
<211>  4
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
<221>  PEPTIDE
<222>  (1)..(4)

<400>  3

Gly Gly Val Pro
1

<210>  4
<211>  4
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
<221>  PEPTIDE
<222>  (1)..(4)

<400>  4

Gly Gly Phe Pro
1

<210>  5
<211>  4
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
<221>  PEPTIDE
<222>  (1)..(4)

<400>  5
```

Gly Gly Ala Pro
1

<210>   6
<211>   5
<212>   PRT
<213>   Artificial

<220>
<223>   This is a synthetic sequence.

<220>
<221>   VARIANT
<222>   (2)..(4)
<223>   Residue at position 2 is V, E, F, Y or K
        Residue at position 4 is V, E, F or I

<400>   6

Gly Xaa Gly Xaa Pro
1   5

<210>   7
<211>   6
<212>   PRT
<213>   Artificial

<220>
<223>   This is a synthetic sequence.

<220>
<221>   PEPTIDE
<222>   (1)..(6)

<400>   7

Ala Pro Gly Val Gly Val
1   5

<210>   8
<211>   35
<212>   PRT
<213>   Artificial

<220>
<223>   This is a synthetic sequence.

```
<220>
<221>  PEPTIDE
<222>  (1)..(35)

<400>  8

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Glu Gly Phe Pro Gly
1               5                   10                  15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
                20                  25                  30

Gly Val Pro
         35

<210>  9
<211>  35
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
<221>  PEPTIDE
<222>  (1)..(35)

<400>  9

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Glu Gly Phe Pro Gly
1               5                   10                  15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Val Gly Phe Pro Gly Val
                20                  25                  30

Gly Val Pro
         35

<210>  10
<211>  35
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
```

<220>
<221> PEPTIDE
<222> (1)..(35)

<400> 10

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
1   5   10   15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
            20   25   30

Gly Val Pro
        35

<210> 11
<211> 35
<212> PRT
<213> Artificial

<220>
<223> This is a synthetic sequence.

<220>
<221> PEPTIDE
<222> (1)..(35)

<400> 11

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Glu Gly Phe Pro Gly
1   5   10   15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
            20   25   30

Gly Val Pro
        35

<210> 12
<211> 35
<212> PRT
<213> Artificial

<220>
<223> This is a synthetic sequence.

<220>
<221> PEPTIDE
<222> (1)..(35)

<400> 12

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
1   5   10   15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
            20   25   30

Gly Val Pro
        35

<210>   13
<211>   65
<212>   PRT
<213>   Artificial

<220>
<223>   This is a synthetic sequence.

<220>
<221>   PEPTIDE
<222>   (1)..(65)

<400>   13

Gly Val Gly Ile Pro Gly Phe Gly Glu Pro Gly Glu Gly Phe Pro Gly
1   5   10   15

Val Gly Val Pro Gly Phe Gly Phe Pro Gly Phe Gly Ile Pro Gly Val
            20   25   30

Gly Ile Pro Gly Phe Gly Glu Pro Gly Glu Gly Phe Pro Gly Val Gly
        35   40   45

Val Pro Gly Phe Gly Phe Pro Gly Phe Gly Ile Pro Gly Val Gly Val
    50   55   60

Pro
65

<210>   14
<211>   35
<212>   PRT
<213>   Artificial

<220>
<223>   This is a synthetic sequence.

```
<220>
<221>  PEPTIDE
<222>  (1)..(35)

<400>  14

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Lys Gly Phe Pro Gly
1               5                   10                  15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
            20                  25                  30

Gly Val Pro
        35

<210>  15
<211>  35
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
<221>  PEPTIDE
<222>  (1)..(35)

<400>  15

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Lys Gly Phe Pro Gly
1               5                   10                  15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Val Gly Phe Pro Gly Val
            20                  25                  30

Gly Val Pro
        35

<210>  16
<211>  35
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
```

<221> PEPTIDE
<222> (1)..(35)

<400> 16

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
1   5   10   15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
                20   25   30

Gly Val Pro
        35

<210> 17
<211> 35
<212> PRT
<213> Artificial

<220>
<223> This is a synthetic sequence.

<220>
<221> PEPTIDE
<222> (1)..(35)

<400> 17

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Lys Gly Phe Pro Gly
1   5   10   15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
                20   25   30

Gly Val Pro
        35

<210> 18
<211> 35
<212> PRT
<213> Artificial

<220>
<223> This is a synthetic sequence.

<220>
<221> PEPTIDE
<222> (1)..(35)

<400> 18

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
1   5   10   15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
            20   25   30

Gly Val Pro
        35

<210>   19
<211>   35
<212>   PRT
<213>   Artificial

<220>
<223>   This is a synthetic sequence.

<220>
<221>   PEPTIDE
<222>   (1)..(35)

<400>   19

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Glu Gly Phe Pro Gly
1   5   10   15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Lys Gly Val Pro Gly Val
            20   25   30

Gly Val Pro
        35

<210>   20
<211>   35
<212>   PRT
<213>   Artificial

<220>
<223>   This is a synthetic sequence.

<220>
<221>   PEPTIDE
<222>   (1)..(35)

<400>   20

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Glu Gly Phe Pro Gly
1   5   10   15

Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val
            20   25   30

Gly Val Pro
        35

<210>   21
<211>   5
<212>   PRT
<213>   Artificial

<220>
<223>   This is a synthetic sequence.

<220>
<221>   VARIANT
<222>   (4)..(4)
<223>   Residue at position 4 is modified to have
        an electroresponsive side chain

<400>   21

Val Pro Gly Xaa Gly
1   5

<210>   22
<211>   5
<212>   PRT
<213>   Artificial

<220>
<223>   This is a synthetic sequence.

<220>
<221>   PEPTIDE
<222>   (1)..(5)

<400>   22

Ile Pro Gly Val Gly
1   5

<210>   23

```
<211>   11
<212>   PRT
<213>   Artificial


<220>
<223>   This is a synthetic sequence.


<220>
<221>   VARIANT
<222>   (6)..(6)
<223>   Residue at position 6 is S, T or Y


<400>   23

Gly Val Gly Val Pro Xaa Gly Val Gly Val Pro
1                   5                   10

<210>   24
<211>   5
<212>   PRT
<213>   Artificial


<220>
<223>   This is a synthetic sequence.


<220>
<221>   VARIANT
<222>   (2)..(4)
<223>   Residue at position 2 is V, E, F, Y, K, S or T
        Residue at position 4 is  V, E, F, I, S, T or Y
        Al least one of residues at positions 2 or 4 is S, T or Y


<400>   24

Gly Xaa Gly Xaa Pro
1               5

<210>   25
<211>   30
<212>   PRT
<213>   Artificial

<220>
<223>   This is a synthetic sequence.

<220>
```

<221> PEPTIDE
<222> (1)..(30)

<400> 25

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
1   5   10   15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro
                20   25   30

<210> 26
<211> 66
<212> DNA
<213> Artificial

<220>
<223> This is a synthetic sequence.

<220>
<221> misc_structure
<222> (1)..(66)

<400> 26
gaggatccag gcgttggggt accgggtgtt ggcgatccgg gtaaaggtgt cccggggttg
    60

gtgtgc
    66

<210> 27
<211> 66
<212> DNA
<213> Artificial

<220>
<223> This is a synthetic sequence.

<220>
<221> misc_structure
<222> (1)..(66)

<400> 27
ctggatccaa cgcctgggaa tccgaaaccc ggaaagccta cacccggcac accaacgccc
    60

gggaca

66

<210> 28
<211> 10
<212> PRT
<213> Artificial

<220>
<223> This is a synthetic sequence.

<220>
<221> PEPTIDE
<222> (1)..(10)

<400> 28

Gly Val Gly Val Pro Gly Tyr Gly Val Pro
1   5   10

<210> 29
<211> 45
<212> PRT
<213> Artificial

<220>
<223> This is a synthetic sequence.

<220>
<221> PEPTIDE
<222> (1)..(45)

<400> 29

Gly Val Gly Ile Pro Gly Glu Gly Ile Pro Gly Val Gly Ile Pro Gly
1   5   10   15

Val Gly Ile Pro Gly Glu Gly Ile Pro Gly Val Gly Ile Pro Gly Val
            20   25   30

Gly Ile Pro Gly Glu Gly Ile Pro Gly Val Gly Ile Pro
        35   40   45

<210> 30
<211> 30
<212> PRT
<213> Artificial

```
<220>
<223>  This is a synthetic sequence.

<220>
<221>  PEPTIDE
<222>  (1)..(30)

<400>  30

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Glu Gly Ile Pro Gly
1               5                   10                  15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
            20                  25                  30

<210>  31
<211>  30
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
<221>  PEPTIDE
<222>  (1)..(30)

<400>  31

Gly Glu Gly Ile Pro Gly Val Gly Ile Pro Gly Glu Gly Ile Pro Gly
1               5                   10                  15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
            20                  25                  30

<210>  32
<211>  45
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
<221>  PEPTIDE
<222>  (1)..(45)

<400>  32
```

```
Gly Val Gly Ile Pro Gly Lys Gly Ile Pro Gly Val Gly Ile Pro Gly
1               5                   10                  15

Val Gly Ile Pro Gly Lys Gly Ile Pro Gly Val Gly Ile Pro Gly Val
            20                  25                  30

Gly Ile Pro Gly Lys Gly Ile Pro Gly Val Gly Ile Pro
        35                  40                  45
```

```
<210>  33
<211>  30
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
<221>  PEPTIDE
<222>  (1)..(30)

<400>  33
```

```
Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Lys Gly Ile Pro Gly
1               5                   10                  15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
            20                  25                  30
```

```
<210>  34
<211>  30
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
<221>  PEPTIDE
<222>  (1)..(30)

<400>  34
```

```
Gly Lys Gly Ile Pro Gly Val Gly Ile Pro Gly Lys Gly Ile Pro Gly
1               5                   10                  15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
```

20   25   30

<210> 35
<211> 110
<212> PRT
<213> Artificial

<220>
<223> This is a synthetic sequence.

<220>
<221> PEPTIDE
<222> (1)..(110)

<400> 35

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1   5   10   15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
            20   25   30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
        35   40   45

Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile
    50   55   60

Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
65   70   75   80

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
                85   90   95

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
            100   105   110

<210> 36
<211> 110
<212> PRT
<213> Artificial

<220>
<223> This is a synthetic sequence.

<220>
<221> VARIANT
<222> (107)..(107)

<223> Residue at position 107 is associated with an SO4 ion

<400> 36

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1   5   10   15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
            20   25   30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
        35   40   45

Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile
    50   55   60

Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
65   70   75   80

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
            85   90   95

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
            100   105   110

<210> 37
<211> 60
<212> PRT
<213> Artificial

<220>
<223> This is a synthetic sequence.

<220>
<221> PEPTIDE
<222> (1)..(60)

<400> 37

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1   5   10   15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
            20   25   30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
        35   40   45

```
Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
   50                  55                  60
```

<210> 38
<211> 60
<212> PRT
<213> Artificial

<220>
<223> This is a synthetic sequence.

<220>
<221> VARIANT
<222> (58)..(58)
<223> Residue at position 58 is associated with an SO4 ion

<400> 38

```
Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1               5                  10                  15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
            20                  25                  30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
        35                  40                  45

Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
   50                  55                  60
```

<210> 39
<211> 45
<212> PRT
<213> Artificial

<220>
<223> This is a synthetic sequence.

<220>
<221> PEPTIDE
<222> (1)..(45)

<400> 39

```
Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1               5                  10                  15
```

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
                20   25   30

Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
        35   40   45

<210> 40
<211> 45
<212> PRT
<213> Artificial

<220>
<223> This is a synthetic sequence.

<220>
<221> PEPTIDE
<222> (1)..(45)

<400> 40

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1   5   10   15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
                20   25   30

Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
        35   40   45

<210> 41
<211> 30
<212> PRT
<213> Artificial

<220>
<223> This is a synthetic sequence.

<220>
<221> PEPTIDE
<222> (1)..(30)

<400> 41

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1   5   10   15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro

20   25   30

```
<210>  42
<211>  30
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
<221>  VARIANT
<222>  (28)..(28)
<223>  Residue at position 28 is associated with an SO4 ion


<400>  42

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1                   5                  10                  15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
                20                  25                  30

<210>  43
<211>  15
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
<221>  PEPTIDE
<222>  (1)..(15)

<400>  43

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
1                   5                  10                  15

<210>  44
<211>  15
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.
```

```
<220>
<221>  VARIANT
<222>  (13)..(13)
<223>  Residue at position 13 is associated with an SO4 ion


<400>  44

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
1               5                   10                  15

<210>  45
<211>  10
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
<221>  PEPTIDE
<222>  (1)..(10)


<400>  45

Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly
1               5                   10

<210>  46
<211>  10
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
<221>  VARIANT
<222>  (9)..(9)
<223>  Residue at position 9 is associated with an SO4 ion


<400>  46

Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly
1               5                   10
```

```
<210>   47
<211>   10
<212>   PRT
<213>   Artificial

<220>
<223>   This is a synthetic sequence.

<220>
<221>   VARIANT
<222>   (9)..(9)
<223>   Residue at position 9 is associated with an MgSO4 ion


<400>   47

Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly
1               5                   10
```